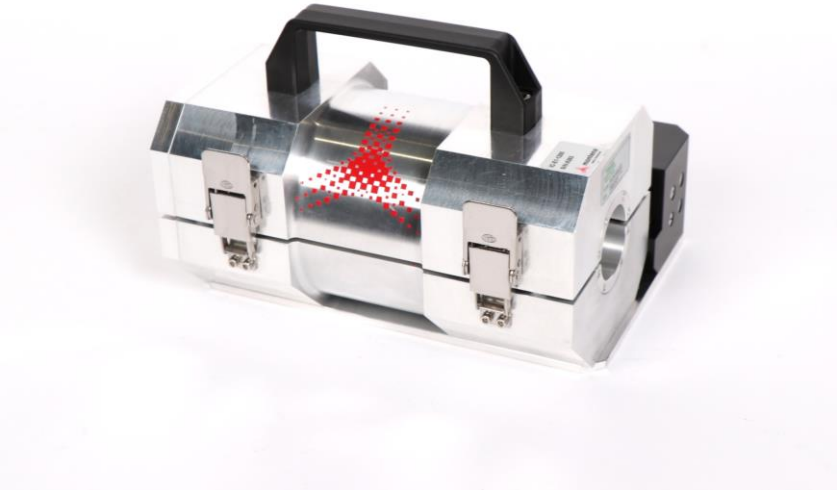
PCI - Short Pulse Inductive coupler

The inductive coupling device is used for the conducted susceptibility testing according to MIL-STD-188-125 with the PCI short pulse generator PPG-E1-1200. The coupler is used for a common mode injection on a bundle of signal or power lines. The coupler can be directly connected to the HV coaxial cable output termination of the PPG-E1-1200 generator.



SPECIFICATIONS	
Type	**IC-E1-1200**
Standard	MIL-STD188-125-1 and -2 / Pulse Current Injection
Maximal RMS EUT current	250 A (DC - 400 Hz)
Peak current (short circuit)	1200 A
Peak voltage (20/500 ns)	Up to 80 kV (to earth)
Internal diameter	40 mm
Connector	proprietary (for PPG-E1-1200 generator)
Dimensions (L x W x H)	24 x 14 x 17 cm
Weight	7.5 kg

montena
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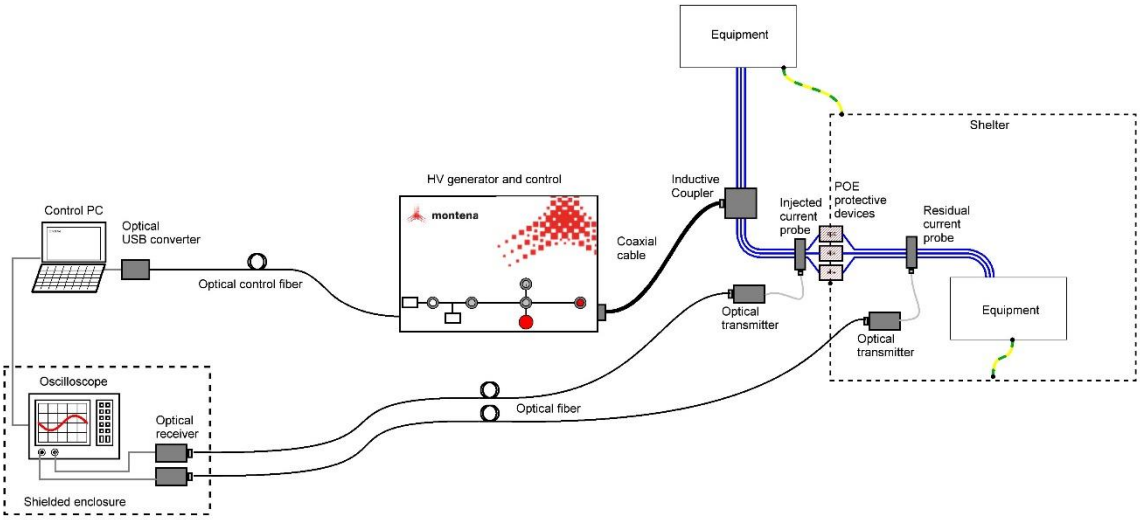
Typical test setup

Common mode verification setup

The pulse generator delivers the high current pulses into the cable under test in a common mode through the inductive coupler.

A current sensor measures the injected current pulse before the protecting devices and another probe measures the residual current behind the protecting devices.

In order to ensure a correct measurement, the current probes are connected with fiber optic links and the measurement equipment is installed in a shielded enclosure.



Ordering information

TYPE	DESCRIPTION
IC-E1-1200	MIL-STD 188-125, E1 (early time) inductive coupler, internal diameter 40 mm, transformation ratio 1:1, peak current max 1200 A, to be used with montena PPG-E1-1200 generator
IC-E1-2150	Special inductive coupler, internal diameter 30mm, transformation ratio 1:2, peak current max 2150 A, to be used with montena PPG-E1-1200 generator